# Title 33 ENVIRONMENTAL QUALITY Part IX. Water Quality

# **Subpart 1. Water Pollution Control**

### Chapter 11. Surface Water Quality Standards

#### §1101. Introduction

- A. The purpose of this Chapter is to establish surface water quality standards that which will:
  - 1. 2. ...
  - 3. protect or enhance the quality of state public waters for designated uses; and
  - 4. B.2. ...
- 3. criteria that protect the designated uses bywhich specifying general and numerical limitations for various water quality parameters that are required for designated water

C. ...

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989), LR 20:883 (August 1994), amended by the Office of the Secretary, Legal Affairs Division, LR 33:826 (May 2007), amended by the Office of the Secretary, Legal Affairs and Criminal Investigations Division, LR 46:

# §1105. Definitions

\* \* \*

Brackish Marshes—those areas inundated or saturated by surface water or groundwater of moderate salinity at a frequency and duration sufficient to support, and that under normal circumstances do support, brackish emergent vegetation. Typical vegetation includes bulltongue (Sagittaria spp.), wild millet (Echinochloa walteri), bullwhip (Scirpus californimicus), sawgrass

(Cladium jamaicense), wiregrass (Spartina patens), three-cornered grass (Scirpus olneyi), and widgeongrass (Ruppia maritima). Brackish marshes are also characterized by interstitial water salinity that normally ranges between 3 and 15 parts per thousand-(ppt) or practical salinity units (psu).

\* \* \*

Cypress-Tupelo Swamps—those areas inundated or saturated by surface water or groundwater of negligible to very low salinity at a frequency and duration sufficient to support, and that under normal circumstances do support, cypress-tupelo vegetation. Typical vegetation includes water tupelo (Nyssa Sylvatica var. aquatica), bald cypress (Taxodium distichum), red maple (Acer rubrum), buttonbush (Cephalanthus occidentalis), and common wax myrtle (Myrica cerifera). Cypress-tupelo swamps can tolerate continuously flooded conditions and are divided into two subtypes: continuously flooded and seasonally flooded. Continuously flooded swamps are those areas that have standing water present all year round. They range from forests with a closed canopy to open canopy conditions with understory freshwater emergent wetland vegetation. Seasonally flooded swamps are those areas that are typically flooded for more than six months per year. They typically have a closed canopy that limits understory vegetation.

\* \* \*

Effluent Limitation—any applicable state or federal qualitatives or quantitatives limitation that imposes any restriction or prohibition on quantities, discharge rates, and concentrations of pollutants discharged into the waters of the state.

\* \* \*

Fresh Warmwater Biota—aquatic life species whose populations typically inhabit waters with warm temperatures (seasonal averages above 20°C, 68°F) and low salinities (less than 2 parts

per thousand), including, but not limited to, black basses; and freshwater sunfish; and freshwater aquatic invertebrates and wildlife.

\* \* \*

Freshwater Emergent Wetlands (including freshwater marshes)—those areas inundated or saturated by surface water or groundwater of negligible to very low salinity at a frequency and duration sufficient to support, and that under normal circumstances do support, freshwater emergent vegetation. Typical vegetation includes cattail (Typha angustifolia), bulltongue (Sagittaria spp.), maiden cane (Panicum hemitomon), water hyacinth (Eichhornenia crassipes), pickerelweed (Ponterderia cordata), alligator\_weed (Alternenanthera philoxeroides), and pennywort [Hydrocotyle spp.]. Freshwater emergent wetlands also are characterized by interstitial water salinity that is normally less than 2 parts per thousand or psu. There are two subtypes of freshwater emergent wetlands: floating and attached. Floating wetlands are those areas where the wetland surface substrate is detached and is floating above the underlying deltaic plain (also called "buoyant" and "flotant"). Attached wetlands are those areas where the vegetation is attached to the wetland surface and is contiguous with the underlying wetland substrate and can be submerged or emergent.

\* \* \*

Highest Attainable Use—the modified aquatic life, wildlife, or recreation use that is both closest to the uses specified in section 101(a)(2) of the Clean Water Act and attainable, based on the evaluation of the factor(s) in LAC 33:IX.1109.B.3 that preclude(s) attainment of the use and any other information or analyses that were used to evaluate attainability. There is no required highest attainable use where the state demonstrates the relevant use specified in section 101(a)(2) of the Clean Water Act and subcategories of such a use are not attainable.

FISCAL OFFICE DRAFT/DATE

WQ097

\* \* \*

*LC50*—the numerical limit or concentration of a test material that is lethal to 50 percent of the exposed aquatic organisms within a specified period of time.

\* \* \*

*Non-101(a)(2) Use*—any use unrelated to the protection and propagation of fish, shellfish, wildlife or recreation in or on the water.

\* \* \*

Pollutant Minimization Program—a structured set of activities to improve processes and pollutant controls that prevent and reduce pollutant loadings in the context of LAC 33:IX.1109.E.

\* \* \*

<u>Practicable</u>—technologically possible, economically viable, and able to be put into practice, in the context of LAC 33:IX.1109.A.2.b.

\* \* \*

Salt (Saline) Marshes—those areas that are inundated or saturated by surface water or groundwater of salinity characteristic of nearshore Gulf of Mexico ambient water at a frequency and duration sufficient to support, and that under normal circumstances do support, saline emergent vegetation. Typical vegetation includes oystergrass (Spartina alterniflora), glasswort (Salicomia spp.), black rush (Juncus roemerianus), saltwort (Batis maritima), black mangrove (Avicennia germinans), and salt-grass (Distichlis spicata). Salt marshes are also characterized by interstitial water salinity that normally exceeds 16 parts per thousand or psu.

\* \* \*

Water Quality Standard—an established set of provisions consisting of antidegradation

**Commented [JP1]:** This one was moved up to be in correct alphabetical order and legal changed the citation from the CFR to the LAC

Commented [JP2]: Legal rearranged the phrasing. As I recall, they don't like using the word "means" in definitions.

numeric) to protect the designated uses and general policies included at the state's discretion, in order to meet the objectives in section 101(a) of the Clean Water Acta definite numerical criterion value or general criterion statement or policy statement promulgated by the administrative authority to enhance or maintain water quality and to provide for, and fully protect, the designated uses of the waters of the state.

Water Quality Standards Variance (WOS Variance)—a time-limited designated use and criterion for a specific pollutant(s) or water quality parameter(s) that reflect the highest attainable condition during the term of the water quality standards variance.

Waters of the State (or State Waters)—all surface and underground waters and watercourses within the state of Louisiana, whether natural or man-made, including but not limited to, all rivers, streams, lakes, wetlands, and groundwaters, within the confines of the state, and all bordering waters extending three miles into of the Gulf of Mexico.

\* \* \*

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989), LR 17:264 (March 1991), LR 20:883 (August 1994), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 25:2401 (December 1999), LR 26:2545 (November 2000), LR 29:557 (April 2003), LR 30:1473 (July 2004), amended by the Office of the Secretary, Legal Affairs Division, LR 33:456 (March 2007), LR 33:827 (May 2007), LR 35:445 (March 2009), amended by the Office of the Secretary, Legal Division, LR 40:2243 (November 2014), LR 42:736 (May 2016), amended by the Office of the Secretary, Legal Affairs and Criminal Investigations Division, LR 46:

## §1107. Enforcement

Α. ...

B. Since aquatic systems receive organic and inorganic materials from natural and man-made sources and receive physical inputs from natural and man-made sources, due

Commented [JP3]: This phrasing was rearranged.

allowances will be made for situations where low dissolved oxygen concentrations or other water quality conditions attributable to natural sources are at variance with the standards. To allow for such situations, the numerical criteria will not be applied below the 7Q10 or other appropriate critical flow as defined in LAC 33:IX.1115.C.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989), LR 20:883 (August 1994), amended by the Office of the Secretary, Legal Affairs and Criminal Investigations Division, LR 46:

### §1109. Policy

Water quality standards policies concerned with the protection and enhancement of water quality in the state are discussed in this Section. Policy statements on antidegradation, water use, water body exception classification entegories, compliance schedules and analytical procedures are described.

### A. Antidegradation Policy

The existing instream water uses and the level of water quality necessary to
protect the existing uses shall be maintained and protected.

21. Where the water quality exceeds levels necessary to support the protection and propagation of fish, shellfish, and wildlife and recreation in and on the water, that water quality shall be maintained and protected unless the state finds, after full satisfaction of the intergovernmental coordination and public participation provisions of the state's continuing planning process, that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the waters are located. The state shall assure water quality adequate to fully protect existing uses with such degradation or lower water quality.

The state shall assure the highest statutory and regulatory requirements shall be achieved for all new and existing point sources and all cost-effective and reasonable best management practices for nonpoint source control. State policy is that all waters of the state, including interstate, intrastate, and coastal waters, and any portions thereof, whose existing quality exceeds the specifications of the approved water quality standards or otherwise supports an unusual abundance and diversity of fish and wildlife resources, such as waters of national and state parks and refuges, will be maintained at their existing high quality. After completion of appropriate analysis and after completion of the public participation processes outlined in the Water Quality Management Plan and the Continuing Planning Process, the state may choose to allow lower water quality in waters that exceed the standards to accommodate justifiable economic and/or social development in the areas in which the waters are located, but not to the extent of violating the established water quality standards. No such changes, however, will be allowed if they impair the existing water uses. No lowering of water quality will be allowed in waters where designated water uses are not currently being attained.

a. Waters may be identified for the protections described in Paragraph 2 of this Subsection on a parameter-by-parameter basis or on a water body-by-water body basis. Where the state identifies waters for antidegradation protection on a water body-by-water body basis, the state shall provide an opportunity for public involvement in any decisions about whether the protections described in Paragraph 2 of this Subsection will be given to a water body, and the factors considered when making those decisions. A water body shall not be excluded from the protections described in Paragraph 2 of this Subsection solely because water quality does not exceed levels necessary to support all of the uses specified in section 101(a)(2) of the Clean Water Act.

Commented [JP4]: Rephrased.

Commented [JP5]: Rephrased; legal doesn't like using "further".

b. Before allowing any lowering of high water quality, according to Paragraph 2 of this Subsection, the state shall find, after an analysis of alternatives, that such a lowering is necessary to accommodate important economic or social development in the area in which the waters are located. The analysis of alternatives shall evaluate a range of practicable alternatives that would prevent or lessen the degradation associated with the proposed activity. When the analysis of alternatives identifies one or more practicable alternatives, the state shall only find that a lowering is necessary if one such alternative is selected for implementation.

3<mark>2</mark>. Waste discharges shall comply with applicable state and federal laws for the attainment of water quality goals. Any new, existing, or expanded point source or nonpoint source discharging into state waters, including any land clearing which is the subject of a federal permit application, shall be required to provide the necessary level of waste treatment to protect state waters as determined by the administrative authority. Further, the highest statutory and regulatory requirements shall be achieved for all existing point sources and best management practices (BMPs) for nonpoint sources. Additionally, no degradation shall be allowed in high-quality waters designated as outstanding natural resource waters, as defined in LAC 33:IX.1111.A. Waters included in the Louisiana Natural and Scenic Rivers System, under the administration of the Louisiana Department of Wildlife and Fisheries, will be considered by the department for designation as outstanding natural resource waters. Those water bodies presently designated as outstanding natural resource waters are listed in LAC 33:IX.1123. The administrative authority shall not approve any wastewater discharge or certify any activity for federal permit that would impair water quality or use of state waters, including waters in the Natural and Scenic Rivers System that are waters of the state.

4. The antidegradation policy and implementation method shall be consistent with section 316 of the Clean Water Act where a potential water quality impairment is associated with a thermal discharge.

53. An implementation plan for this antidegradation policy is provided in LAC 33:IX.1119. The state's methods for implementing the antidegradation policy shall be, at a minimum, consistent with the state's policy and with the federal regulations at 40 CFR 131.12(a). The state shall provide an opportunity for public involvement during the development and any subsequent revisions of the implementation methods.

B. — B.3.f. ...

4. The department shall ensure that the water quality standards provide for the attainment and maintenance of the water quality standards of the downstream waters when designating water body uses and the appropriate criteria for those uses.

A subcategory of a use may be adopted and the appropriate criteria set to
 reflect the varying needs of such a subcategory of a use.

C. Water Body Exception Classification. Some water bodies may qualify for a water body exception classification. This classification will be made on a case-by-case basis. Whenever data indicate that a water body exception classification is warranted, the department will recommend the exception to the administrative authority for approval. In all cases where exceptions are proposed, the concurrence of the Water Quality Protection Division Director of the EPA must be obtained and the opportunity for public participation must be provided during the exceptions review process. The general criteria of these standards shall apply to all water bodies classified as a water body exception except where a particular water body is specifically exempted. A use attainability analysis may shall be conducted to gather data necessary to justify a water body

Commented [JP6]: Rephrased

exception classification if an accompanying downgrade of a 101(a)(2) use or revision of criteria is being proposed. If such a classification is justified, applicable water uses and water quality criteria will be established. Exceptions are allowed for the following three classifications eategories of water bodies.

- 1. 2.d. ...
- 3. Naturally Dystrophic Waters. Naturally dystrophic waters are defined in LAC 33:IX.1105. Water bodies shall be designated as naturally dystrophic waters and assigned appropriate water quality criteria according to the procedure in the department's current Water Quality Management Plan/Continuing Planning Process.
- a. Naturally dystrophic waters are defined as waters that receive large amounts of natural organic material largely of terrestrial plant origin, are commonly stained by the decomposition of such organic material, and are low in dissolved oxygen because of natural conditions. Only those water bodies primarily affected by nonanthropogenic sources of oxygen-demanding substances or naturally occurring cycles of oxygen depletion will be considered for classification as naturally dystrophic waters. These water bodies typically include or are surrounded by wetlands (e.g., bottomland hardwood forests, freshwater swamps and marshes, or intermediate, brackish, or saline marshes) and have sluggish, low-gradient flows most of the year. Naturally dystrophic water bodies, though seasonally deficient in dissolved oxygen, may fully support fish and wildlife propagation and other water uses. Low dissolved oxygen concentrations (less than 5 mg/l) may occur seasonally during the warmer months of the year in naturally dystrophic water bodies.
- b. No water body may be classified as naturally dystrophic without the approval of both the administrative authority and the EPA. A use attainability analysis may be

conducted to gather data to document the characteristics of a naturally dystrophic water body. A use attainability analysis must be conducted to support the modification of dissolved oxygen criteria and/or the seasonality of dissolved oxygen criteria in naturally dystrophic waters.

Applicable general and numeric criteria not specifically exempt shall remain applicable to waters classified as naturally dystrophic.

c. A wastewater discharge to an approved naturally dystrophic water body may be proposed only if the discharge will not by itself or in conjunction with other discharges, cause impairment of the applicable designated uses, nor cause exceedance of any applicable general and site-specific criteria in the receiving water body, as determined in the exception approval process, nor cause exceedance of any applicable general and site-specific criteria in LAC 33:IX.1113 and 1123 in any water body that receives water from the naturally dystrophic water body.

d. Natural background conditions and proposed significant changes
will be determined through use attainability analyses prior to the addition of any discharge. A
wastewater discharge may be proposed for an approved, designated naturally dystrophic water
body in a wetland only if the discharge will not by itself, or in conjunction with other discharges:

i. cause inundation of the receiving area such that regeneration
of characteristic vegetative species would be significantly reduced;

area; and

iii. increase biological succession of the receiving area above

ii. significantly modify species composition of the receiving

### naturally occurring levels.

D. Compliance Schedules in LPDES Permits. and Variances

Commented [JP7]: The section was rephrased and reworked.

Upon permit issuance, modification, or renewal, compliance schedules may be incorporated into a permit to allow a permittee adequate time to make treatment facility modifications necessary to comply with water quality-based permit limitations determined to be necessary to implement new or revised water quality standards. Compliance shall be achieved at the earliest practicable time. The department will establish interim conditions which may consist of, but are not limited to, compliance schedules, monitoring requirements, temporary limits, and milestone dates so as to measure progress toward final project completion (e.g., design completion, construction start, construction completion, date of compliance).

2. A variance from statewide criteria may be allowed in certain cases where the appropriateness of the criteria is questionable. The variance provides a period of time during which issues concerning the appropriateness of the criteria may be resolved. A variance shall be valid for no more than three years. Any person may request that the department grant a variance. A variance may be granted only after appropriate public participation and EPA review and approval. Variances from criteria will be allowed for anticipated nonattainment of water quality standards due to one or more of the reasons listed in LAC 33:IX.1109.B.3. Other reasons for approval of a variance may be considered on a case by case basis.

E. Water Quality Standards (WQS) Variances

1. The state may adopt a WQS variance, as defined in Section 1105 of this Chapter. The WQS variance is subject to the provisions of this Subsection and public participation requirements at 40 CFR 131.20(b). A WQS variance shall comply with the requirements of 40 CFR 131.14 and is a water quality standard subject to EPA review and approval, or disapproval under section 303(c) of the Clean Water Act.

a. Applicability

Commented [JP8]: This whole section is renumbered

i. A WQS variance may be adopted for a permittee(s) or water body/water body segment(s), but only applies to the permittee(s) or water body/water body segment(s) specified in the WQS variance.

ii. When adopting a WQS variance the underlying designated use and criterion addressed by the WQS variance shall be retained, unless a revision to the underlying designated use and criterion is adopted by the department and approved by EPA consistent with federal regulations. All other applicable standards not specifically addressed by the WQS variance remain applicable.

by EPA, it shall be the applicable standard for purposes of the Clean Water Act under 40 CFR 131.21(d)–(e), for the following limited purposes. The approved WQS variance applies for the purposes of developing LPDES permit limits and requirements under federal regulations, where appropriate, consistent with Clause E.1.d.i of this Subsection.

iv. A WQS variance will not be adopted if the designated use and criterion addressed by the WQS variance can be achieved by implementing technology-based effluent limits required under sections 301(b) and 306 of the Clean Water Act.

b. Requirements for Submission to EPA. The following information shall be included in the WQS variance submitted to EPA when granting a variance request for a permittee(s), or water body/water body segment(s).

i. Identify the pollutant(s) or water quality parameter(s) and the water body/water body segment(s) to which the WQS variance applies. A discharger(s)-specific WQS variance shall also identify the permittee(s) subject to the WQS variance.

**Commented [JP9]:** The last sentence concerning WQS variances with 401 WQC's was deleted.

Commented [JP10]: Rephrased

ii. Provide the requirements that apply throughout the term of

Commented [JP11]: Rephrased

Commented [JP12]: Citation changed from renumbering.

the WQS variance. The requirements shall represent the highest attainable condition of the water body or water body segment applicable throughout the term of the WQS variance based on the required supporting documentation. The requirements shall not result in any lowering of the currently attained ambient water quality, unless a WQS variance is necessary for restoration activities, consistent with LAC 33:IX.1109.E.1.c.i.(a).(ii). The state shall specify the highest attainable condition of the water body or water body segment as a quantifiable expression that is one of the following:

- (a). for a discharger(s)-specific WQS variance:
  - (i). the highest attainable interim criterion;
  - (ii). the interim effluent condition that reflects the

greatest pollutant reduction achievable; or

(iii). if no additional feasible pollutant control

technology can be identified, the interim criterion or interim effluent condition that reflects the greatest pollutant reduction achievable with the pollutant control technologies installed at the time the state adopts the WQS variance, and the adoption and implementation of a pollutant minimization program, as defined in Section 1105 of this Chapter:

(b). for a WQS variance applicable to a water body or

water body segment:

(i). the highest attainable interim use and interim

criterion; or

(ii). if no additional feasible pollutant control

echnology can be identified, the interim use and interim criterion that reflect the greatest pollutant

reduction achievable with the pollutant control technologies installed at the time the state adopts the WQS variance, and the adoption and implementation of a pollutant minimization program.

variance are either the highest attainable condition identified at the time of the adoption of the WQS variance, or the highest attainable condition later identified during any reevaluation consistent with Clause E.1.b.v of this Subsection, whichever is more stringent.

of time from the date of EPA approval or a specific date. The term of the WQS variance shall only be as long as necessary to achieve the highest attainable condition and consistent with the demonstration provided in Subparagraph E.1.c of this Subsection. The state may adopt a subsequent WQS variance consistent with this Subsection.

v. For a WQS variance with a term greater than five years, specify a frequency to reevaluate the highest attainable condition using all existing and readily available information and stipulate a provision how the state intends to obtain public input on the reevaluation. Such reevaluations shall occur no less frequently than every five years after EPA approval of the WQS variance and the results of such reevaluation shall be submitted to EPA within 30 days of completion of the reevaluation.

variance will no longer be the applicable water quality standard for purposes of the Clean Water

Act if the state does not conduct a reevaluation consistent with the frequency specified in the WQS

variance or the results are not submitted to EPA as required by Clause E.1.b.v of this Subsection

until the state conducts the reevaluation and submits the results to EPA.

Commented [JP13]: Citation changed from renumbering.

Commented [JP14]: Citation changed from renumbering.

Commented [JP15]: Citation changed from renumbering.

The supporting documentation submitted to EPA shall include the

following.

Documentation that shall demonstrate the need for a WQS

variance.

(a). For a WQS variance to a Clean Water Act section

101(a)(2) use or a subcategory of such a use, the state shall demonstrate that attaining the designated use and criterion is not feasible throughout the term of the WQS variance because:

(i). one of the factors listed in Clause B.3 of this

Commented [JP16]: Citation changed from renumbering.

Section is met; or

actions necessary to facilitate lake, wetland,

or stream restoration through dam removal or other significant reconfiguration activities preclude attainment of the designated use and criterion while the actions are being implemented.

(b). For a WQS variance to a non-Clean Water Act section 101(a)(2) use, the state shall submit documentation justifying how its consideration of the use and value of the water for those uses listed in 40 CFR 131.10(a) appropriately supports the WQS variance and term. A demonstration consistent with Subclause E.1.c.i.(a) of this Subsection

may be used to satisfy this requirement.

ii. Documentation that shall demonstrate that the term of the WQS variance is only as long as necessary to achieve the highest attainable condition. Such documentation shall justify the term of the WQS variance by describing the pollutant control activities to achieve the highest attainable condition, including those activities identified through a pollutant minimization program, which serve as milestones for the WQS variance.

Commented [JP17]: Citation changed from renumbering.

iii. In addition to Clause E.1.c.i and ii of this Subsection, for a

Commented [JP18]: Citation changed from renumbering.

WQS variance that applies to a water body or water body segment:

(a). Identify and document any cost-effective and reasonable best management practices for nonpoint source controls related to the pollutant(s) or water quality parameter(s) and water body or water body segment(s) specified in the WQS variance that could be implemented to make progress towards attaining the underlying designated use and criterion (The state shall provide public notice and comment for any such documentation).

(b). Any subsequent WQS variance for a water body or water body segment shall include documentation of whether and to what extent best management practices for nonpoint source controls were implemented to address the pollutant(s) or water quality parameter(s) subject to the WQS variance and the water quality progress achieved.

d. Implementation of a WQS variance in an LPDES permit. A WQS variance serves as the applicable water quality standard for implementation of LPDES permitting requirements pursuant to LAC 33:IX.2707.D for the term of the WQS variance. Any limitations and requirements necessary to implement the WQS variance shall be included as enforceable conditions of the LPDES permit for the permittee(s) subject to the WQS variance.

Short-Term Activity Authorization. The administrative authority may exempt from water quality standards certain short-term activities that the state determines are necessary to accommodate activities, emergencies, or to protect the public health and welfare. Such activities shall not cause long-term or permanent impact on designated water uses. These activities may include, but are not limited to, mosquito abatement projects, algae and weed control projects, and fish eradication projects. No short-term activity authorization shall supersede any applicable state or federal law or regulation including permitting process or the terms or conditions of any permit.

Commented [JP19]: LAC cited instead of CFR.

GF. Errors. Errors resulting from inadequate or erroneous data and human or clerical errors will be subject to correction by the state, and the discovery of such errors does not render the remaining or unaffected standards invalid.

HG. Severability. If any provisions of these standards or the application of any provision of these standards to any person or circumstance is held invalid, the application of such provision to other persons or circumstances and the remainder of the standards shall not be affected thereby.

- **IH.** Water Quality Standards Revision Process
- It is the position of the state of Louisiana that the standards contained herein are those that are reasonable on the basis of the actual or potential quality of the state's waters, present and future water uses, and the best practicable wastewater treatment under any conditions. However, standards are not fixed for all time, but are subject to future revision. The nature of future revisions of these standards will be strongly influenced by many factors. Among these are the following.
- a. As a downstream or bordering state in all cases involving interstate streams, Louisiana's standards will be affected by the quality of water received from its upstream and neighboring states.
- b. Because it is the state farthest downstream, Louisiana's water quality will be affected by mean low flows when interstate rivers and tributaries become subject to flow regulation and diversion projects.
- c. Changes in technology or natural conditions, or the availability of new data, may require a revision of numerical criteria at any time. Such revisions, however, will be accomplished only after proper consideration of designated water uses. Any proposed revision will be consistent with state and federal regulations.

Commented [JP20]: No changes to this section. I'm unsure why legal put it in.

d. Advances in scientific knowledge concerning the toxicity, cancer potency, metabolism, or exposure pathways of toxic pollutants that affect the assumptions on which existing criteria are based may necessitate a revision of numerical criteria at any time. Such revisions, however, will be accomplished only after proper consideration of designated water uses. Any proposed revision will be consistent with state and federal regulations.

2. The state shall hold public hearings at least once every three years to review applicable water quality standards and, as appropriate, modify and adopt standards. The revised standards will be reviewed in accordance with the state Administrative Procedure Act (R.S. 49:950 et seq.) and appropriate EPA procedures.

Sample Collection and Analytical Procedures. Procedures for collecting and analyzing samples to be used to determine whether the standards have been attained shall be subject to the following requirements as well as those specified in the department's Quality Assurance (QA) Plan for water monitoring and analysis.

- 1. Samples will be obtained at a depth or depths representative of the average water quality at the sampling station in question.
- Samples will be collected from sampling locations as necessary to assess attainment of standards.
- Collection and preservation of samples will be in accordance with accepted practices as specified in the department's QA Plan.
- Numerical values of the various parameters will typically be determined by analytical procedures as specified in the QA Plan.

K<del>J</del>. Wetlands

Commented [JP21]: Also, no changes to this section. Legal put

Commented [JP22]: Also, no changes to this section. Legal put it in

- I. Wetlands, as defined in LAC 33:IX.1105, are a valuable resource to the state of Louisiana. Because of the state's natural low elevations, extensive riverine and riparian environments, and the presence of the Mississippi River delta, Louisiana has a large and diverse amount of wetland habitat. Specific values of Louisiana wetlands include commercial, recreational, and cultural uses. In addition, Louisiana wetlands provide important biological and physiochemical functions that include, but are not limited to, buffering against hurricanes and storms, holding excess floodwaters during high rainfall or high tides, recharging groundwater aquifers used for drinking water and irrigation, and improving water quality by filtering pollutants and taking up nutrients.
- 2. There are two basic types of Louisiana wetlands: forested wetlands and nonforested, or marsh, wetlands. Forested wetlands include bottomland hardwood swamps,
  continuously flooded cypress-tupelo swamps, seasonally flooded cypress-tupelo swamps, and
  oligotrophic seasonally flooded pine forests. Non-forested or marsh wetlands include floating
  freshwater emergent wetlands, attached freshwater emergent wetlands, brackish marshes, and salt
  (saline) marshes. Each of these wetland types are defined in LAC 33:IX.1105.
- 3. Wetlands approved by the administrative authority for wastewater assimilation projects pursuant to the Water Quality Management Plan, Volume 3, Section 10, Permitting Guidance Document for Implementing Louisiana Surface Water Quality Standards, are assigned the following designated uses: secondary contact recreation and fish and wildlife propagation.
- 4. Applicable Criteria. Wetlands provide several values and functions that necessitate water quality criteria protective primarily of vegetative productivity. Additionally, wetlands can periodically become anoxic or anaerobic, or lack water altogether. Therefore, the

following criteria are applicable to wetlands approved by the administrative authority for wastewater assimilation projects pursuant to the Water Quality Management Plan, Volume 3, Section 10, Permitting Guidance Document for Implementing Louisiana Surface Water Quality Standards.

Commented [JP23]: Also, no changes to this section. Legal put it in

Commented [JP24]: Also, no changes to this section. Legal put

a. A numerical dissolved oxygen criterion is not necessary to protect the beneficial use of fish and wildlife propagation.

b. The general criteria found in LAC 33:IX.1113.B, except for LAC 33:IX.1113.B.3 and 9, apply.

- c. Numerical criteria found in LAC 33:IX.1113.C.4, 5.b, and 6 apply.
- d. The biological criteria found in LAC 33:IX.1113.B.12.b apply.
- e. Additional or site-specific criteria may be necessary to protect other existing or beneficial uses identified by the administrative authority.
- 5. A wastewater discharge may be proposed for a wetland of any defined type only if the discharge will not cause impairment of the wetland or exceedance of applicable general or site-specific criteria.
- 6. Discharges to wetlands approved by the administrative authority for wastewater assimilation projects will only be permitted following procedures pursuant to the Water Quality Management Plan, Volume 3, Section 10, Permitting Guidance Document for Implementing Louisiana Surface Water Quality Standards.

Commented [JP25]: Also, no changes to this section. Legal put

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1). HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989), LR 17:264 (March 1991), LR 17:966 (October 1991), LR 20:883 (August 1994), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2546 (November 2000), LR 29:557 (April 2003), amended by the Office of the Secretary, Legal Affairs Division, LR 33:457 (March 2007), LR 33:828 (May 2007), amended by the Office of the Secretary, Legal

Division, LR 40:2243 (November 2014), amended by the Office of the Secretary, Legal Affairs and Criminal Investigations Division, LR 46:

#### §1113. Criteria

#### A. Introduction

- 1. Water quality Ceriteria are elements of the water quality standards that which set general and numerical limitations on the permissible amounts of a substance or other characteristics of state waters. General and numerical criteria are established to promote restoration, maintenance, and protection of state waters. Water quality criteria describe stream uses. A criterion for a substance represents the timits permissible levels for that substance at which water quality will remain sufficient to support a designated use.
- 2. Water qQuality criteria for the waters of Louisiana are based on their present and potential uses and the existing water quality indicated by data accumulated through monitoring programs of the department and other state and federal agencies as well as universities and private sources. In some cases, available water quality and flow data are not adequate to establish criteria. Criteria in these cases are established on the basis of the best information available from water bodies that which are similar in hydrology, water quality, and physical configuration.
- 3. General and numerical water quality criteria may be modified to take into account site-specific, local conditions. Whenever data acquired from the sources named in LAC 33:IX.1113.A.2 or other sources indicate that criteria should be modified, the department will develop and recommend revised site-specific criteria. The revised criteria will be submitted to the EPA for approval and promulgated in accordance with established procedures including, but not limited to, those in the Louisiana Administrative Procedure Act, R.S. 49:950 et seq.
  - B. B.4. ...
    - 5. Toxic Substances. No substances shall be present in the waters of the state

or the sediments underlying said waters in quantities that alone or in combination will be toxic to human, plant, or animal life or significantly increase health risks due to exposure to the substances or consumption of contaminated fish or other aquatic life. The numerical criteria (LAC 33:IX.1113.C.6) specify allowable concentrations in water for several individual toxic substances to provide protection from the toxic effects of these substances. Requirements for the protection from the toxic effects of other toxic substances not included in the numerical criteria and required under the general criteria are described in LAC 33:IX.1121.

6. — 13. ...

C. Numerical Criteria. Numerical criteria identified in LAC 33:IX.1123, Table 3, apply to the specified water bodies, and to their tributaries, distributaries, and interconnected streams and water bodies contained in the water management subsegment if they are not specifically named therein, unless unique chemical, physical, and/or biological conditions preclude the attainment of the criteria. In those cases, natural background levels of these conditions may be used to establish site-specific water quality criteria. Those water bodies officially approved and designated by the state and EPA as intermittent streams, man-made water bodies, or naturally dystrophic waters may be excluded from some or all numerical criteria as stated in LAC 33:IX.1109. Although naturally occurring variations in water quality may exceed criteria, water quality conditions attributed to human activities must not exceed criteria when flows are greater than or at critical conditions (as defined in LAC 33:IX.1115.C).

1. ...

2. Chlorides, Sulfates, and Total Dissolved Solids. Numerical criteria for these parameters generally represent the arithmetic mean of existing data from the nearest sampling location plus three standard deviations. For estuarine and coastal marine waters subsegments in

Table 3 that have no listed criteria (i.e., designated N/A), criteria will be established on a case-by-case basis using field determination of ambient conditions and the designated uses. For water bodies not specifically listed in the Numerical Criteria and Designated Uses Table, increases over background levels of chlorides, sulfates, and total dissolved solids may be permitted. Such increases will be permitted at the discretion of the department on a case-by-case basis and shall not cause in-stream concentrations to exceed 250, 250, and 500 mg/L for chlorides, sulfates, and total dissolved solids, respectively, except where a use attainability analysis indicates that higher levels will not affect the designated uses. In permitting such increases, the department shall consider their potential effects on resident biota and downstream water bodies in addition to the background conditions. Under no circumstances shall an allowed increase over background conditions cause any numerical criteria to be exceeded in any listed water body or any other general or numerical criteria to be exceeded in either listed or unlisted water bodies.

- 3. 5.c. ...
- d. Oyster Propagation. The fecal coliform median most probable number (MPN) shall not exceed 14 fecal coliforms per 100 mL, and not more than 10 percent of the samples shall exceed an MPN of 43 fecal coliforms per 100 mL for a five tube decimal dilution test—in those portions of the area most probably exposed to fecal contamination during the most unfavorable hydrographic and pollution conditions.
- 6. Toxic Substances. Numerical criteria for specific toxic substances are listed in Table 1.
- a. Numerical criteria for specific toxic substances are mostly derived from the following publications of the Environmental Protection Agency: Water Quality Criteria, 1972 (commonly referred to as the "Blue Book"; Quality Criteria for Water, 1976 (commonly

referred to as the "Red Book"; Ambient Water Quality Criteria, 1980 (EPA 440/5-80); Ambient Water Quality Criteria, 1984 (EPA 440/5-84-85); and Quality Criteria for Water, 1986—with updates (commonly referred to as the "Gold Book"). Natural background conditions, however, are also considered. These toxic substances are selected for criteria development because of their known or suspected occurrence in Louisiana waters and potential threat to attainment of designated water uses.

b. The criteria for protection of aquatic life are based on acute and chronic concentrations in fresh and marine waters (see LAC 33:IX.1105) as specified in the EPA criteria documents and are developed primarily for attainment of the fish and wildlife propagation use. Where a specific numerical criterion is not derived in EPA criteria documents, a criterion is developed by applying an appropriate application factor for acute and chronic effects to the lowest LC50 value for a representative Louisiana species. The application of either freshwater toxics criteria or marine toxics criteria in brackish waters will be determined by the average salinity of the water body (see LAC 33:IX.1105). In cases where the average salinity is 2 parts per thousand or greater and less than 10 parts per thousand, the more stringent criteria will be used unless an alternative site-specific criterion is developed (as described in EPA-822-R-02-047, November 2002).

c. — e. ..

f. The use of clean techniques may be required to definitively assess ambient levels of some pollutants (e.g., EPA Method 1669 for metals) or to assess such pollutants when numeric or narrative water quality <a href="mailto:criteriastandards">criteriastandards</a> are not being attained. Clean techniques are defined in LAC 33:IX.1105.

Commented [JP26]: Section 1113.C.6.c had language referring to the risk level for dioxin and lindane. Since we're postponing Table 1 updates, this citation no longer required an update.

Table 1 Numeric <mark>al</mark> Criteria for Specific Toxic Substances [In micrograms per liter (µg/L)]									
Toxic Substance		Aqı	uatic Li	fe Protect	ion		Human Health Protection		
Chemical Abstracts	Fresl	hwater	Marine Water		Brackish Water			Non-	
Service (CAS)  Registry Number	Acute	Chronic	Acute	Chronic	Acute	Chronic	Water Supply <sup>1</sup>	Drinking Water Supply <sup>2</sup>	
Aldrin 309-00-2	3.00		1.300		1.300		4x10 <sup>-5</sup>	4x10 <sup>-5</sup>	
Benzene  71-43-2	2,249	1,125	2,700	1,350	2,249	1,125	0.58	6.59	
Benzidine 92-87-5	250	125	-1		250	125	8x10 <sup>-5</sup>	1.7x10 <sup>-4</sup>	
Bromodichloromethane 75-27-4		-1					0.52	6.884	
Bromoform (Tribromomethane)  75-25-2	2,930	1,465	1,790	895	1 <mark>.</mark> 790	895	3.9	34.7	
Carbon Tetrachloride (Tetrachloromethane)  56-23-5	2,730	1,365	15,000	7,500	2,730	1,365	0.22	1.2	
Chlordane <u>57-74-9</u>	2.40	0.0043	0.090	0.0040	<u>0</u> .090	0.0040	1.9x10 <sup>-4</sup>	1.9x10 <sup>-4</sup>	

Table 1 Numeric <mark>al</mark> Criteria for Specific Toxic Substances [In micrograms per liter (µg/L)]										
Toxic Substance		Aqı	Human Health Protection							
Chemical Abstracts	Fresl	hwater	Marin	e Water	Brackish Water			Non-		
Service (CAS)  Registry Number	Acute	Chronic	Acute	Chronic	Acute	Chronic	Drinking Water Supply <sup>1</sup>	Drinking Water Supply <sup>2</sup>		
Chloroform (Trichloromethane)  67-66-3	2,890	1,445	8,150	4,075	2,890	1,445	5.3	70		
2-Chlorophenol 95-57-8	258	129		1	258	129	0.10	126.4		
3-Chlorophenol 108-43-0		-1		1	-1		0.10			
4-Chlorophenol  106-48-9	383	192	535	268	383	192	0.10			
Cyanide <b>57-12-5</b>	45.9	5.4	1.0		1.0		663.8	12,844		
DDE 72-55-9	52.5	10.5000	0.700	0.1400	0.700	0.1400	1.9x10 <sup>-4</sup>	1.9x10 <sup>-4</sup>		
DDT 50-29-3	1.10	0.0010	0.130	0.0010	0.130	0.0010	1.9x10 <sup>-4</sup>	1.9x10 <sup>-4</sup>		

Table 1 Numeric <mark>al</mark> Criteria for Specific Toxic Substances [In micrograms per liter (µg/L)]									
Toxic Substance		Aq		Human Health Protection					
Chemical Abstracts	Fresl	nwater	Marin	e Water	Brackish Water			Non-	
Service (CAS)  Registry Number	Acute	Chronic	Acute	Chronic	Acute	Chronic	Drinking Water Supply <sup>1</sup>	Drinking Water Supply <sup>2</sup>	
Dibromochloromethane  124-48-1							0.39	5.08	
1,2-Dichloroethane (EDC)  107-06-2	11,800	5,900	11,300	5,650	11,300	5,650	0.36	6.8	
1,1-Dichloroethylene  75-35-4	1,160	580	22,400	11,200	1,160	580	0.05	0.58	
2,4- Dichlorophenoxyacetic acid (2,4-D)  94-75-7							100.00		
2,3-Dichlorophenol  576-24-9							0.04		
2,4-Dichlorophenol  120-83-2	202	101	-1		202	101	0.30	232.6	

1	Table 1 Numeric <mark>al</mark> Criteria for Specific Toxic Substances [In micrograms per liter (µg/L)]										
Toxic Substance				fe Protect			Human Health Protection				
Chemical Abstracts	Fresl	hwater	Marin	e Water	Brackish Water			Non-			
Service (CAS)  Registry Number	Acute	Chronic	Acute	Chronic	Acute	Chronic	Drinking Water Supply <sup>1</sup>	Drinking Water Supply <sup>2</sup>			
2,5-Dichlorophenol <b>583-78-8</b>							0.50				
2,6-Dichlorophenol  87-65-0							0.20				
3,4-Dichlorophenol  95-77-2		1					0.30				
1, <mark>-</mark> 3-Dichloropropene <u>542-75-6</u>	606	303	79	39.5	79	39.5	0.33	5.51			
Dieldrin  60-57-1	0.2374	0.0557	0.710	0.0019	0.2374	0.0019	5x10 <sup>-5</sup>	5x10 <sup>-5</sup>			
Endosulfan <sup>2</sup>	0.22	0.0560	0.034	0.0087	0.034	0.0087	0.47	0.64			
Endrin 72-20-8	0.0864	0.0375	0.037	0.0023	0.037	0.0023	0.26	0.26			
Ethylbenzene  100-41-4	3,200	1,600	8,760	4,380	3,200	1,600	247	834			

Table 1 Numeric <mark>al</mark> Criteria for Specific Toxic Substances [In micrograms per liter (µg/L)]									
Toxic Substance		Aq		Human Health Protection					
Chemical Abstracts	Fresl	nwater	Marin	e Water	Brackish Water			Non-	
Service (CAS)  Registry Number	Acute	Chronic	Acute	Chronic	Acute	Chronic	Drinking Water Supply <sup>1</sup>	Drinking Water Supply <sup>2</sup>	
Heptachlor  76-44-8	0.52	0.0038	0.053	0.0036	0.053	0.0036	7x10 <sup>-5</sup>	7x10 <sup>-5</sup>	
Hexachlorobenzene							2.5x10 <sup>-4</sup>	2.5x10 <sup>-4</sup>	
Hexachlorobutadiene <sup>3</sup> 87-68-3	5.1	1.02	1.6	0.32	1.6	0.32	0.09	0.11	
Hexachlorocyclohexane (gamma BHC; Lindane)  58-89-9	5.30	0.21	0.160	-1	0.160	-1	0.11	0.20	
Methyl chloride (Chloromethane)  74-87-3	55,000	27,500	27,000	13,500	27,000	13,500			
Methylene chloride (Dichloromethane)  75-09-2	19,300	9,650	25,600	12,800	19,300	9,650	4.4	87	

Table 1 Numeric <mark>al</mark> Criteria for Specific Toxic Substances [In micrograms per liter (µg/L)]									
Toxic Substance		Aq	uatic Li	tic Life Protection				Human Health Protection	
Chemical Abstracts	Fresl	hwater	Marine Water		Brackish Water			Non-	
Service (CAS)  Registry Number	Acute	Chronic	Acute	Chronic	Acute	Chronic	Drinking Water Supply <sup>1</sup>	Drinking Water Supply <sup>2</sup>	
Phenol (Total) <sup>4</sup> 108-95-2	700	350	580	290	580	290	5.00	50.0	
Polychlorinated Biphenyls, Total (PCBs)	2.00	0.0140	10.000	0.0300	2.00	0.0140	5.59x10 <sup>-5</sup>	5.61x10 <sup>-5</sup>	
TDE (DDD)  72-54-8	0.03	0.0060	1.250	0.2500	0.03	0.0060	2.7x10 <sup>-4</sup>	2.7x10 <sup>-4</sup>	
2,3,7,8- Tetrachlorodibenzo-p- dioxin (2,3,7,8-TCDD) <sup>5</sup> 1746-01-6							0.71x10 <sup>-6</sup>	0.72x10 <sup>-6</sup>	
1,1,2,2- Tetrachloroethane  79-34-5	932	466	902	451	902	451	0.16	1.8	

1	Table 1 Numeric <mark>al</mark> Criteria for Specific Toxic Substances [In micrograms per liter (μg/L)]									
Toxic Substance		Aqı		Human Health Protection						
Chemical Abstracts	Fresl	hwater	Marine Water		Brackish Water			Non-		
Service (CAS)  Registry Number	Acute	Chronic	Acute	Chronic	Acute	Chronic	Drinking Water Supply <sup>1</sup>	Drinking Water Supply <sup>2</sup>		
Tetrachloroethylene  127-18-4	1,290	645	1,020	510	1,020	510	0.65	2.5		
Toluene  108-88-3	1,270	635	950	475	950	475	6,100	46,200		
Toxaphene 8001-35-2	0.73	0.0002	0.210	0.0002	0.210	0.0002	2.4x10 <sup>-4</sup>	2.4x10 <sup>-4</sup>		
1,1,1-Trichloroethane  71-55-6	5,280	2,640	3,120	1,560	3,120	1,560	200.0			
1,1,2-Trichloroethane  79-00-5	1,800	900			1,800	900	0.56	6.9		
Trichloroethylene  79-01-6	3,900	1,950	200	100	200	100	2.8	21		

Table 1 Numeric <mark>al</mark> Criteria for Specific Toxic Substances [In micrograms per liter (µg/L)]									
Toxic Substance		Aq	uatic Li	fe Protect	ion		Human Prote		
Chemical Abstracts	Fresl	hwater	Marine Water			ckish ater		Non-	
Service (CAS)  Registry Number	Acute	Chronic	Acute	Chronic			Drinking Water	Water	
							Supply <sup>1</sup>	Supply <sup>2</sup>	
2-(2,4,5- Trichlorophenoxy) propionic acid (2,4,5- TP; Silvex)			1		1		10.00	1	
Vinyl Chloride (Chloroethylene) 75-01-4							2.37x10 <sup>-2</sup>	0.45	

\* \* \*

<sup>6</sup> Total refers to the sum of the Aroclors as stated in 40 CFR 136.3.

<sup>7</sup> Endosulfan is the sum of Endosulfan α and Endosulfan β.

	Table 1A  Numerical Criteria for Metals and Inorganics  [In micrograms per liter (µg/L) or parts per billion (ppb)]									
<del>Toxic</del>	Aquatic Life Protection									
Substance	<del>Fresh</del>	<del>Marine</del>	<del>Water</del>	Brackis	s <mark>h-Water</mark> f	Drinking Water Supply <sup>a</sup>				
	<del>Acute</del>	<del>Chronic</del>	<del>Acute</del>	<b>Chronic</b>	<b>Acute</b>	<b>Chronic</b>				
Arsenie <sup>e</sup>	<mark>339.8</mark>	<del>150</del>	<del>69.00</del>	<del>36.00</del>	<del>69</del>	<del>36</del>	<del>10.0</del>			
<del>Chromium</del> <del>III (Tri)<sup>b,e</sup></del>	Acute: e- <sup>(0.8190[In(hat 0.316</sup> Chronic: e- <sup>(0.8190[In</sup> 0.86		<del>515.00</del>	<del>103.00</del>	<u>*</u>	*	<del>50.0</del>			
<del>Chromium</del> <del>VI (Hex)<sup>e</sup></del>	<del>16</del>	<del>11</del>	<del>1,100</del>	<del>50.00</del>	<del>16</del>	<del>11</del>	<del>50.0</del>			
Zine <sup>b,e</sup>	Acute: e . <sup>(0.8473[In(har 0.978</sup> Chronic: e . <sup>(0.8473[In</sup> 0.986	( <del>hardness)] + 0.7614)                                    </del>	<del>90</del>	<del>81</del>	*	<u>*</u>	<del>5,000</del>			
Cadmium <sup>b,c</sup>	Acute: e (1.1280[ln(har (1.136672   ln (hardness Chronic: e (0.7852 ln (1.101672   ln (hardness	(hardness)] - 3.4900)	<mark>45.35</mark>	10.00	*	<u>*</u>	<del>10.0</del>			
<del>Copper<sup>b,e</sup></del>	Acute: e (0.9422[In(har 0.960] Chronic: e (0.8545[In 0.960]	(hardness)] 1.3860)	<del>3.63</del>	<del>3.63</del>	*	*	<del>1000</del>			
<del>Lead<sup>b,c</sup></del>	Acute: e (1.2730[ln(hat (1.46203 [ln (hardness)] Chronic: e (1.2730[ln (1.46203 [ln (hardness)]	<del>209</del>	<del>8.08</del>	*	*	<del>50.0</del>				
Mercury <sup>e</sup>	2.04 <sup>d</sup>	<del>0.012</del> e	<del>2 d</del>	0.025 <sup>e</sup>	<del>2⁻⁴</del>	0.012 <sup>e</sup>	<del>2.0</del>			
Nickel <sup>b,e</sup>	Acute: e (0.8460[ln(hau 0.998 Chronic: e (0.8460[ln 0.997		<del>74</del>	<del>8.2</del>	<u>*</u>	*	-			

\* For hardness dependent criteria, values are calculated using average hardness (mg/L CaCO<sub>3</sub>)

from two year data compilations contained in the latest Louisiana Water Quality Data Summary

or other comparable data compilations or reports, as described in LAC 33:IX.1113.C.6.

\* Applies to surface water bodies designated as Drinking Water Supply and also protects for primary and secondary contact recreation and fish consumption.

Hardness dependent criteria for freshwater are based on the natural logarithm formulas multiplied by conversion factors (CF) for acute and chronic protection. The minimum and maximum hardness values used for criteria calculation are 25 mg/L and 400 mg/L CaCO<sub>3</sub>, as specified in 40 CFR 131.36.

<sup>e</sup>Freshwater and saltwater metals criteria are expressed in terms of the dissolved metal in the water column. The standard was calculated by multiplying the previous water quality criteria by a conversion factor (CF). The CF represents the EPA recommended conversion factors found in EPA 822 R-02-047, November 2002.

<sup>d</sup> Conversion factor is from: Office of Water Policy and Technical Guidance on Interpretation and Implementation of Aquatic Life Metals Criteria, October 1, 1993. Factors were expressed to two decimal places.

\*It is not appropriate to apply CF to chronic value for mercury because it is based on mercury residues in aquatic organisms rather than toxicity.

FAccording to LAC 33:IX.1113.C.6.d, the most stringent criteria (freshwater or marine) will be used.

	Table 1A  Numeric Criteria for Metals and Inorganics  [In micrograms per liter (μg/L) or parts per billion (ppb)]								
Toxic Substance	Aquatic Life Protection			Human Health Protection					
Chemical Abstracts Service (CAS) Registry Number	<u>Freshwater</u>	Marine Water	<mark>Brackish</mark> Water <sup>d</sup>	Drinking Water Supply <sup>c</sup>					
Ammonia (in mg TAN/L) <sup>g</sup> 7664-41-7	Acute: $0.7249 \times \left(\frac{0.0114}{1+10^{7.204-pH}} + \frac{1.6181}{1+10^{pH-7.204}}\right) \times min\left(51.93, 23.12 \times 10^{0.036 \times (20-T)}\right)$ Chronic: $0.8876 \times \left(\frac{0.0278}{1+10^{7.608-pH}} + \frac{1.1994}{1+10^{pH-7.608}}\right) \times \left(2.126 \times 10^{0.028 \times (20-max(T,7))}\right)$	•		<u>.</u>					
Arsenic <sup>a</sup> 7440-38-2	Acute: 339.8 Chronic: 150	Acute: 69 Chronic: 36	Acute: 69 Chronic: 36	10					
Cadmium <sup>a,b</sup> 7440-43-9	<b>Acute:</b> e (1.1280[ln(hardness)] - 1.6774) x CF <sub>1</sub> <b>Chronic:</b> e (0.7852[ln(hardness)] - 3.4900) x CF <sub>2</sub>	Acute: 45 Chronic: 10	Acute: * Chronic: *	<u>10</u>					
<u>Chromium</u> <u>III (Tri)<sup>a,b</sup></u> 16065-83-1	Acute: e (0.8190[In(hardness)] + 3.6880) x 0.316 Chronic: e (0.8190[In(hardness)] + 1.5610) x 0.86	Acute: 515 Chronic: 103	Acute: * Chronic: *	<u>50</u>					
Chromium VI (Hex) <sup>a</sup> 18540-29-9	Acute: 16 Chronic: 11	<b>Acute:</b> 1,100 <b>Chronic:</b> 50	Acute: 16 Chronic: 11	<u>50</u>					
Copper <sup>a,b,h</sup> 7440-50-8	<b>Acute:</b> e (0.9422[ln(hardness)] - 1.3844) x 0.960 <b>Chronic:</b> e (0.8545[ln(hardness)] - 1.3860) x 0.960	<b>Acute:</b> 3.63 <b>Chronic:</b> 3.63	Acute: * Chronic: *	1,000					
Lead <sup>a,b</sup> 7439-92-1	<b>Acute:</b> e (1.2730[ln(hardness)] - 1.4600) x CF <sub>3</sub> <b>Chronic:</b> e (1.2730[ln(hardness)] - 4.7050) x CF <sub>3</sub>	Acute: 209 Chronic: 8.08	Acute: * Chronic: *	<u>50</u>					
Mercury 7439-97-6	Acute: 2.04° Chronic: 0.012 <sup>f</sup>	Acute: 2° Chronic: 0.025 <sup>f</sup>	Acute: 2 <sup>e</sup> Chronic: 0.012 <sup>f</sup>	<u>2.0</u>					
Nickel <sup>a,b</sup> 7440-02-0	<b>Acute:</b> e (0.8460[ln(hardness)] + 3.3612) x 0.998 <b>Chronic:</b> e (0.8460[ln(hardness)] + 1.1645) x 0.997	Acute: 74 Chronic: 8.2	Acute: *	<u>.</u>					
Zinc <sup>a,b</sup> 7440-66-6	<b>Acute:</b> e (0.8473[ln(hardness)] + 0.8604) x 0.978 <b>Chronic:</b> e (0.8473[ln(hardness)] + 0.7614) x 0.986	Acute: 90 Chronic: 81	Acute: * Chronic: *	<u>5,000</u>					

	Table 1A  Numeric Criteria for Metals and Inc  [In micrograms per liter (μg/L) or parts pe			
Toxic Substance	Aquatic Life Protection			Human Health Protection
Chemical Abstracts Service (CAS) Registry Number	<u>Freshwater</u>	Marine Water	Brackish Water <sup>d</sup>	Drinking Water Supply <sup>c</sup>
Conversion Factor (CF)	$CF_1$ calculated as: 1.136672-[ln (hardness)(0.041838)] $CF_2$ calculated as: 1.101672-[ln (hardness)(0.041838)] $CF_3$ calculated as: 1.46203-[ln (hardness)(0.145712)]			

\* For hardness-dependent criteria, values are calculated using average hardness (mg/L CaCO<sub>3</sub>) from two-year data compilations contained in the latest Louisiana Water Quality Data Summary or other comparable data compilations or reports, as described in LAC 33:IX.1113.C.6.

\*Freshwater and saltwater metals criteria are expressed in terms of the dissolved metal in the water column. The standard was calculated by multiplying the previous water quality criteria by a conversion factor. The conversion factor represents the EPA-recommended conversion factors found in EPA-822-R-02-047, November 2002.

\*Hardness-dependent criteria for freshwater are based on the natural logarithm formulas multiplied by conversion factors for acute and chronic protection. The minimum and maximum hardness values used for criteria calculation are 25 mg/L and 400 mg/L CaCO<sub>3</sub>, as specified in 40 CFR 131.36.

\*Applies to surface water bodies designated as drinking water supply and also protects for primary

d According to LAC 33:IX.1113.C.6.d, the most stringent criteria (freshwater or marine) will be

and secondary contact recreation and fish consumption.

<sup>d</sup> According to LAC 33:IX.1113.C.6.d, the most stringent criteria (freshwater or marine) will be used.

<sup>e</sup> Conversion factor is from: Office of Water Policy and Technical Guidance on Interpretation and Implementation of Aquatic Life Metals Criteria, October 1, 1993. Factors were expressed to two decimal places.

It is not appropriate to apply a conversion factor to the chronic value for mercury since it is based on mercury residues in aquatic organisms rather than toxicity.

For temperature (T, in °C) and pH dependent criteria, values are calculated using the temperature and pH measured at the time of sampling in coordination with the ambient water quality monitoring program.

<sup>a</sup> Upon request the administrative authority may grant the use of the Biotic Ligand Model for deriving site-specific copper criteria utilizing the procedures identified in EPA's *Aquatic Life Ambient Freshwater Quality Criteria - Copper* (2007), EPA-822-R-07-001. Site-specific criteria derived using the Biotic Ligand Model are new and revised water quality standards that require EPA review under section 303(c) of the Clean Water Act.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989), LR 17:264 (March 1991), LR 17:967 (October 1991), repromulgated LR 17:1083 (November 1991), amended LR 20:883 (August 1994), LR 24:688 (April 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 25:2402 (December 1999), LR 26:2547 (November 2000), LR 27:289 (March 2001), LR 30:1474 (July 2004), amended by the Office of the Secretary, Legal Affairs Division, LR 33:457 (March 2007), LR 33:829 (May 2007), LR 35:446 (March 2009), amended by the Office of the Secretary, Legal Division, LR 42:736 (May 2016), amended by the Office of the Secretary, Legal Affairs and Criminal Investigations Division, LR 45:1188 (September 2019), LR 46:

#### §1115. Application of Standards

#### A. Background

1. The www ater quality standards set forth in this Chapter specify concentration

<del>limits and other water quality characteristics which, if not exceeded,</del> are <del>expected to result in an</del>

goals for water body segments highest designated uses given thereby ensuring suitable aquatic ecosystems. These concentration limits and characteristics (criteria) Water quality standards are derived for individual water segments on the basis of the designated use or uses of the segment and the natural qualities of the waters.

- 2. An established water quality value—(criterion) represents the general or numerical concentration limit or characteristic of a constituent in a water body segment that is allowed by the state. For some toxic substances, however, criteria provide both acute and chronic limits for the protection of aquatic life in fresh and marine waters, and separate limits for the protection of human health. Criteria apply at all times, except where natural conditions cause them to be exceeded or where specific exemptions in the standards apply. Water uses, pollution sources, natural conditions, and the water quality criteria are all considered in the department's determination of appropriate permit limits for each wastewater discharge to a water body.
- 3. The difference between an ambient concentration and a water quality criterion—value should not be construed as the amount of a constituent that can be discharged. The antidegradation statement requires that all waters which exceed the water quality standards be maintained at their existing high quality, which can be lowered only after—appropriate demonstrating that allowing lower water quality is necessary to accommodate important economic and or social justification development in the area in which the waters are located has been shown. In addition, before a lowering of high water quality can be allowed, an analysis of alternatives shall be performed to demonstrate that the lowering of high water quality is necessary. More stringent requirements apply to those waters designated as outstanding natural resource waters as described in LAC 33:IX.1109.A.3.

Commented [JP27]: Rephrased

B. — C.1. ...

2. Mixing zones are exempted from general and numerical criteria as specified in LAC 33:IX.1113, except as required in Paragraph C.5 of this Section. The waters outside of mixing zones must meet all the standards for that particular body of water. For toxic substances, this requires meeting chronic aquatic life criteria beginning at the edge of the mixing zone.

3. — 5.b. ...

c. materials in concentrations that will cause acute toxicity to aquatic life. Acute toxicity refers to aquatic life lethality or other deleterious effects caused by the passage through a mixing zone of migrating fish moving up or downstream, or by the passage through a mixing zone of less mobile forms such as zooplankton that drift through the mixing zone. Numerical acute criteria or other acute quantitative limits for toxic substances will be applied in the mixing zone to protect aquatic life from acute toxicity.

6. —Table 2b. ...

\* \* \*

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989), LR 17:264 (March 1991), LR 17:967 (October 1991), repromulgated LR 17:1083 (November 1991), amended LR 20:883 (August 1994), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 25:2403 (December 1999), LR 26:2548 (November 2000), amended by the Office of the Secretary, Legal Affairs Division, LR 33:831 (May 2007), amended by the Office of the Secretary, Legal Affairs and Criminal Investigations Division, LR 46:

#### §1119. Implementation Plan for Antidegradation Policy

A. — B.2. ...

a. The state establishes the water quality standards specified in this Chapter to reflect the goals for individual water bodies and provide the legal basis for antidegradation and for water pollution control. This Chapter also defines and designates water

uses and criteria to protect thosem uses

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 15:738 (September 1989), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2548 (November 2000), amended by the Office of the Secretary, Legal Affairs Division, LR 33:831 (May 2007), amended by the Office of the Secretary, Legal Division, LR 40:2244 (November 2014), amended by the Office of the Secretary, Legal Affairs and Criminal Investigations Division, LR 46:

#### §1121. Regulation of Toxic Substances Based on the General Criteria

#### A. Introduction

- 1. The water quality standards in this Chapter provide for the protection of human, plant, and animal life from the deleterious effects of toxic substances. The general criteria (LAC 33:IX.1113.B.5), in particular, require that state waters be free from the effects of toxic substances. This requirement is especially applicable to those toxic substances for which no numerical criteria are established.
- 2. The following methods are developed to protect state waters from the effects of toxic substances as required under the general criteria and where no numerical criteria exist. The methods follow the permitting policies of the department Louisiana Water Discharge Permit System (LWDPS). The resulting permit (effluent) limitations imposed on discharges prevent toxic in-stream conditions as required under the general criteria.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 15:738 (September 1989), amended LR 17:264 (March 1991), LR 20:883 (August 1994), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 25:2404 (December 1999), LR 26:2548 (November 2000), amended by the Office of the Secretary, Legal Affairs Division, LR 31:2507 (October 2005), LR 33:832 (May 2007), LR 33:2163 (October 2007), amended by the Office of the Secretary, Legal Affairs and Criminal

Investigations Division, LR 46:

#### §1123. Numerical Criteria and Designated Uses

A. — A.2. ...

\* \* \*

B. Explanation of Water Body Code Number. The water body subsegment number and unique water body identification code are designated as follows:

### AABBCC-XXX

where:

AA = Water Quality Management Basin Number

BB = Segment Number

CC = Subsegment Number

XXX = A minimum of three digits Unique Water Body Identification Code (If a

Unique Water Body Identification Code is not identified for a particular Subsegment,

then all water bodies within that Subsegment have the same designated uses and

numerical criteria.)

Example:

090207<del>5112</del> = Water Body Subsegment and Identification Code for Morgan

### Bayou Middle Pearl River and West Middle Pearl River

where:

09 = Pearl River Management Basin

0902 = Segment 0902 of the Pearl River Management Basin

090207= Subsegment 090207 of Pearl River Management Basin Segment 02

5112 = Four digit Unique Water Body Identification Code for Morgan Bayou

#### C. Numerical Criteria Unit Definitions

1. Parameter Abbreviations. The following abbreviations of water quality parameters are used in Table 3 under the subheading "Numerical Criteria."

\* \* \*

#### 2. Bacterial Criteria (BAC)

a. The code numbers associated with the following designated uses are used in Table 3 under the Numerical Criteria subheading "BAC."

\* \* \*

b. The code number identified under the Numerical Criteria subheading "BAC" in Table 3 represents the most stringent bacterial criteria that apply to each individual subsegment. Where applicable, additional bacterial criteria also apply, depending on the designated uses of the subsegment and the geographic location of the subsegment. The specified numeric bacterial criteria for each designated use listed in this Paragraph can be found in LAC 33:IX.1113.C.

D. — E. ...

**Commented [JP28]:** Previous version had table with no changes; legal took it out.

Commented [JP29]: Previous version had table with no changes; legal took it out.

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	Numeric <mark>al</mark> Criteria							
	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS	
		Atchafalaya	River B	asin (01	1)		'			
		*	* *							
010401	East Atchafalaya	ABC	65	70	5.0	6.5-	1	33	440	
	Basin and					8.5				
	Morganza									
	Floodway South to									
	Interstate -10 Canal									

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated	Numeric <mark>al</mark> Criteria							
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS	
010501	Lower Atchafalaya	ABCD	65	70	5.0	6.5-	1	33	440	
	Basin Floodway—					8.5				
	From Whiskey Bay									
	Pilot Channel at									
	mile 54 to US									
	Highway -90 bridge									
	in Morgan City;									
	includes Grand									
	Lake and Six-Mile									
	Lake									
	•	*	* *			•	•	-		

\* \* \*

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated			Numer	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
010801	Atchafalaya	ABC	500	150	5.0	6.5-	1	35	1,000
	River—From					9.0			
	ICWW south of								
	Morgan City to								
	Atchafalaya Bay;								
	includes								
	Sweetwaterbay								
	Lake and Bayou								
	Shaffer								
010802	Wax Lake Outlet—	ABC	500	150	5.0	6.5-	1	35	1,000
	From ICWWUS-90					9.0			
	<del>bridge</del> to								
	Atchafalaya Bay;								
	includes Wax Lake								

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated	Numeric <mark>al</mark> Criteria							
0000	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS	
010803	Intracoastal	ABC	65	70	5.0	6.0-	1	32	440	
	Waterway—From					8.5				
	Bayou Boeuf Lock									
	to Bayou Sale;									
	includes Wax Lake									
	Outlet to US									
	Highway <mark>-</mark> 90									

\* \* \*

# Barataria Basin (02)

\* \* \*

020201	Bayou Des	ABCG	600	100	2.3	6.0-	1	32	1,320
	Allemands—From				Mar	8.5			
	Lac Des Allemands				Nov.;				
	to- <mark>old</mark> US- <u>Highway</u>				5.0				
	90 (Scenic)				Dec				
					Feb.				
I	1	I	ĺ	l		l	ĺ	I	

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated	Designated Numerical Criteria						
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
		*	* * *						
020301	Bayou Des	ABCG	600	100	2.3	6.0-	1	32	1,320
	Allemands—From				Mar	8.5			
	US <mark>-<u>Highway</u></mark> 90 to				Nov.;				
	Lake Salvador				5.0				
	(Scenic)				Dec				
					Feb.				
		*	* * *		I				l
020303	Lake Cataouatche	ABC	500	150	3.3	6.0-	1	32	1,000
	and Tributaries				April-	8.5			
					Sept.;				
					5.0				
					Oct				
					Mar.				

 $\begin{tabular}{ll} \textbf{Commented [JP30]:} No changes to 020303. $\Gamma$ m guessing legal cited it to indicate changes to 020303-001. \end{tabular}$ 

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	Numeric <mark>al</mark> Criteria						
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
020303	Luling Wetland	<del>B-C</del>	<del>[23]</del>	<del>[23]</del>	<del>[23]</del>	<del>[23]</del>	2	<del>[23]</del>	<del>[23]</del>
<del>001</del>	Forested wetland								
	located 1.8 miles								
	south of US-90 at								
	Luling, east of the								
	Luling wastewater								
	treatment pond,								
	bordered by Cousin								
	Canal to the west								
	and Louisiana								
	Cypress Lumber								
	Canal to the south								

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated	ated Numeric <del>al</del> Criteria								
	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS		
020304	Lake Salvador	ABC	600	100	3.3	6.0-	1	32	1,320		
					April-	8.5					
					Sept.;						
					5.0						
					Oct						
					Mar.						

**Commented [JP31]:** No changes to 020304; maybe legal citation tracking convention?

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated	d Numeric <mark>al</mark> Criteria						
Cour	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
020305	Luling Wetland—	B C	[23]	[23]	[23]	[23]	<u>2</u>	[23]	[23]
	Forested wetland								
	located 1.8 miles								
	south of US								
	Highway 90 at								
	Luling, east of the								
	Luling wastewater								
	treatment pond,								
	bordered by Cousin								
	Canal to the west								
	and Louisiana								
	Cypress Lumber								
	Canal to the south								
	•	*	* *						

\* \* \*

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

		W	aters						
Code	Stream	Designated			Nume	ric <mark>al</mark> C	Criteria		
0040	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
020903	Barataria	ABC	N/A	N/A	3.8	6.5-	1	35	N/A
	Waterway — From				June-	9.0	[25]		
	Bayou Rigolettes to				Aug.;				
	Grand Bayou				4.0				
	(Estuarine)				Sept				
					May				
		*	* * *	•	•	•	•		
		Calcasieu R	iver Bas	sin (03)	)				
030101	Calcasieu River—	ABCF	65	35	5.0	6.0-	1	32	225
	From headwaters to					8.5			

030101	Calcasieu River—	ABCF	65	35	5.0	6.0-	1	32	225
	From headwaters to					8.5			
	L <mark>Aa.</mark> Highway-8								
030102	Calcasieu River—	ABCFG	65	35	5.0	6.0-	1	32	225
	From L <mark>Aa.</mark>					8.5			
	Highway-8 to the								
	Rapides-Allen								
	Parish line (Scenic)								

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated	ed Numeric <mark>al</mark> Criteria						
	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
030103	Calcasieu	ABCFG-	65	35	5.0	6.0-	1	32	225
	River—From	[10]				8.5			
	Rapides-Allen								
	Parish line to Marsh								
	Bayou (Scenic) [10]								
030103	Kinder Ditch	<del>B-C</del>	<del>65</del>	<mark>35</mark>	<del>3.0</del>	<del>6.0</del>	<del>1</del>	<mark>32</mark>	<del>225</del>
<del>04075</del>	From headwaters of					<mark>8.5</mark>			
	unnamed tributary								
	to confluence with								
	Calcasieu River								
030104	Mill Creek—From	ABC	60	60	5.0	6.0-	1	32	250
	headwaters to					8.5			
	Calcasieu River								

Commented [JP32]: No changes o 030103.

Commented [JP33]: No changes to 030104.

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream Designated Numerical Criteria								
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
030105	Kinder Ditch—	B C	<u>65</u>	<u>35</u>	3.0	<u>6.0-</u>	1	<u>32</u>	<u>225</u>
	From confluence of					<u>8.5</u>			
	unnamed tributary								
	with Bayou Serpent								
	to confluence with								
	Calcasieu River								
	-1	*	* * *						
030401	Calcasieu River—	АВСЕ	N/A	N/A	4.0	6.0-	4	35	N/A
	From <del>below</del> Moss					8.5	[25]		
	Lake to the Gulf of								
	Mexico; includes								
	Ship Channel. West								
	Cove and Monkey								
	Island Loop								
	(Estuarine)								
	ı	*	* * *	1		I	ı		

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Stream Designated Numerical Cri									
0040	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
030506	Bundicks Creek—	ABC	20	20	5.0	6.0-	1	30	150
	From headwaters to					8.5			
	Bundicks Lake								
	(Scenic)								
		*	* * *			1			
030508	Bundicks Creek—	ABC	20	20	5.0	6.0-	1	30	150
	From Bundicks					8.5			
	Lake to Whiskey								
	Chitto Creek								
	(Scenic)								
030601	Barnes Creek—	ВС	60	60	[2]	6.0-	2	30	150
	From headwaters to					8.5			
	Little Barnes Creek								
	(Scenic)								

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	ated Numeric <mark>al</mark> Criteria							
	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS	
030602	Barnes Creek—	ABC	60	60	5.0	6.0-	1	32	250	
	From Little Barnes					8.5				
	Creek to Calcasieu									
	River_(Scenic)									
		*	* * *							
030701	Bayou Serpent	ABCF	250	75	5.0	6.0-	1	32	300	
	From headwaters to					8.5				
	Calcasieu River									
	1	*	* *			I				
030802	Hickory Branch—	ABCF	250	75	5.0	6.0-	1	32	500	
	From headwaters to					8.5				
	West Fork									
	Calcasieu River									
	(Scenic)									

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Stream Designated Numerical Criteria									
	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
030803	Beckwith Creek—	ABCF	25	25	5.0	6.0-	1	32	100
	From headwaters to					8.5			
	West Fork								
	Calcasieu River								
	(Scenic)								
		*	**			I	I		
030806	Houston River—	ABCF	250	75	[3]	6.0-	1	32	500
	From Bear Head					8.5			
	Creek at L <mark>Aa.</mark>								
	Highway -12 to								
	West Fork								
	Calcasieu River								

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated			Numei	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
030806	Houston River	ABCDF	<del>250</del>	<del>75</del>	<del>[3]</del>	<del>6.0-</del>	1	<mark>32</mark>	<del>500</del>
<del>554700</del>	Canal From 1					<mark>8.5</mark>			
	mile west of LA-								
	388 to its								
	<del>terminuses at</del>								
	Mossville and the								
	Houston River								
030807	Bear Head Creek—	ABC	250	75	5.0	6.0-	1	32	500
	From headwaters to					8.5			
	Houston River at								
	L <mark>Aa. Highway -</mark> 12								

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated			Numei	nted Numeric <mark>al</mark> Criteria							
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS				
030808	Houston River	ABCDF	<u>250</u>	<mark>75</mark>	<u>[3]</u>	<u>6.0-</u>	1	<u>32</u>	<u>500</u>				
	Canal—From 1					<u>8.5</u>							
	mile west of La.												
	Highway 388 to its												
	terminuses at												
	Mossville and the												
	Houston River												

59

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	red Numeric <mark>al</mark> Criteria							
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS	
031002	Intracoastal	ABC	N/A	N/A	4.0	6.0-	1	35	N/A	
	Waterway—From					8.5	[25]			
	West Calcasieu									
	River Basin western									
	boundary to									
	Calcasieu Ship									
	Channel; includes									
	Old Canal Lock									
	(Estuarine)									

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated			Numei	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
031101	Intracoastal	ABC	250	75	5.0	6.5-	1	32	500
	Waterway—From					9.0			
	Calcasieu								
	River Lock to								
	Creole Canal at								
	<u>Gibbstown</u> East								
	Calcasieu River								
	Basin boundary								

\* \* \*

Lake Pontchartrain Basin (04)

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream Designated Numeric <mark>al</mark> Criteria								
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
040101	Comite River	ABC	25	10	5.0	6.0-	1	32	150
	Comite Creek, and					8.5			
	Little Comite								
	Creek—From Little								
	Comite Creek and								
	Comite Creek at								
	Mississippi state								
	line to Wilson-								
	Clinton Highway								
		*	* * *						

62

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated			Numei	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
040305	Colyell Bay;	ABC	25	10	2.3	6.0-	1	32	150
	includes Colyell				Mar	8.5			
	Creek and Middle				Nov.;				
	Colyell Creek—				5.0				
	From Hood Road to				Dec				
	Amite River Colyell				Feb.				
	<del>Bay</del>								
		*	* *						
040401	Blind River—From	ABCG	250	75	2.3	6.0-	1	30	500
	Amite River				Mar	8.5			
	Diversion Canal to				Nov.;				
	<del>mouth at</del> Lake				4.0				
	Maurepas (Scenic)				Dec				
					Feb.				
					[9]				
	<u> </u>	*	* *						

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	ted Numeric <mark>al</mark> Criteria							
Code	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS	
<del>040502</del>	Blood River From	ABC	<del>10</del>	<del>5</del>	<del>5.0</del>	<del>6.0-</del>	1	<del>30</del>	<del>55</del>	
	<del>headwaters to</del>					<del>8.5</del>				
	George White Road									
040502	Tickfaw River—	ABC	<u>10</u>	<u>5</u>	2.3	<u>6.0-</u>	1	<u>30</u>	<u>55</u>	
	From La. Highway				Mar	8.5				
	42 to Lake				Nov.;					
	<u>Maurepas</u>				<u>5.0</u>					
					Dec					
					Feb.					
		*	* * *							
<del>040506</del>	Tickfaw River	AB-C	<del>10</del>	<del>5</del>	<del>2.3</del>	<del>6.0</del>	1	<mark>30</mark>	<del>55</del>	
	From La. Highway				Mar.	<mark>8.5</mark>				
	42 to Lake				Nov.;					
	<del>Maurepas</del>				<del>5.0</del>					
					<del>Dec</del>					
					<del>Feb.</del>					

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated			Numei	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
040506	Blood River—From	A B C	<u>10</u>	<u>5</u>	<u>5.0</u>	6.0-	1	<u>30</u>	<u>55</u>
	headwaters to					8.5			
	George White Road								
		*	* *	I.			•		
040604	South Slough;	ABC	30	20	2.3	6.0-	1	30	150
	includes Anderson				Mar	8.5			
	Canal <mark>and<del>to</del></mark>				Nov.;				
	Interstate Highway				5.0				
	55 borrow pit canal				Dec				
	to North Pass				Feb.				

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	Numeric <mark>al</mark> Criteria						
Sac	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
040604	South Slough	<del>B C</del>	<del>[23]</del>	<del>[23]</del>	<del>[23]</del>	<del>[23]</del>	2	<del>[23]</del>	<del>[23]</del>
<del>001</del>	Wetland Forested								
	freshwater and								
	<del>brackish marsh</del>								
	located 1.4 miles								
	south of								
	<del>Ponchatoula,</del>								
	directly east of								
	Interstate Highway								
	55, extending to								
	North Pass to the								
	south and								
	Tangipahoa River								
	to the east								

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated	Numeric <mark>al</mark> Criteria								
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS		
040605	Mississippi Bayou	ABC	1,600	200	2.3	6.0-	1	32	3,000		
	and associated				Mar	8.5					
	canals; includes				Nov.;						
	Dutch Bayou,				5.0						
	Reserve Relief				Dec						
	Canal and Hope				Feb.						
	Canal										
	1	l s	· * *	1	1	l	1	l	l e		

**Commented [JP34]:** We kept as is and deleted Sandy's recommendation with the semicolon, em-dash, and uppercase "I"

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	Numeric <mark>al</mark> Criteria						
	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
040607	South Slough	<u>B C</u>	[23]	[23]	[23]	[23]	2	[23]	[23]
	Wetland—Forested								
	freshwater and								
	brackish marsh								
	bounded to the								
	north by South								
	Slough, west by								
	Interstate Highway								
	55 borrow pit canal,								
	and south by North								
	<u>Pass</u>								
	1	*	* *	I		1	1		

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated			Nume	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
040704	Chappepeela	ABCG	20	20	5.0	6.0-	1	30	140
	Creek—From					8.5			
	headwaters <mark>La.</mark>								
	Highway 1062 to								
	Tangipahoa River								
		<u> </u>	* * *				I		
<del>040802</del>	Ponchitolawa	ABCG	<del>850</del>	<del>135</del>	<del>5.0</del>	<del>6.0</del>	1	<del>30</del>	<del>1,850</del>
	Creek From					<del>8.5</del>			
	headwaters to US								
	Highway 190								
	(Scenic)								

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Stream Designated Nu				Numeric <mark>al</mark> Criteria						
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS	
040802	Tchefuncte River—	ABCG	<u>20</u>	<u>10</u>	2.3	<u>6.0-</u>	1	<u>30</u>	<u>110</u>	
	From US Highway				Mar	<u>8.5</u>				
	190 to Bogue				Nov.;					
	Falaya River;				<u>5.0</u>					
	includes tributaries				Dec					
	(Scenic)				Feb.					

\* \* \*

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	Numeric <mark>al</mark> Criteria							
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS	
040806	East Tchefuncte	ВС	[23]	[23]	[23]	[23]	2	[23]	[23]	
	Marsh Wetland—									
	Freshwater and									
	brackish marsh									
	located just west of									
	Mandeville,									
	bounded on the									
	south by Lake									
	Pontchartrain, the									
	west by Tchefuncte									
	River, the north by									
	La. Highway 22,									
	and the east by									
	Sanctuary Ridge									

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated			Numei	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
040807	Ponchitolawa	ABC	<u>850</u>	<u>135</u>	<u>5.0</u>	<u>6.0-</u>	1	<u>30</u>	1,850
	Creek—From					<u>8.5</u>			
	headwaters to US								
	Highway 190								
<del>040807</del>	Tehefuncte River	<del>ABCG</del>	<del>20</del>	<del>10</del>	<del>2.3</del>	<del>6.0-</del>	<del>1</del>	<del>30</del>	<del>110</del>
	From US Highway				Mar.	<mark>8.5</mark>			
	190 to Bogue				Nov.;				
	<del>Falaya River;</del>				<del>5.0</del>				
	includes tributaries				<del>Dec.</del>				
	(Scenic)				<del>Feb.</del>				
		*	**						
041001	Lake	ABC	N/A	N/A	4.0	6.5-	1	32	N/A
	Pontchartrain—					9.0	[25]		
	West of US-								
	Highway 11 bridge								
	(Estuarine)								

Commented [JP35]: This waterbody is not Scenic according to LDWF. According to John Sheehan, this error was introduced into regulations with the eLMRAP delineation a few years ago and caught during the triennial subsegment review. I didn't catch it during my own review.

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated			Nume	ric <mark>al</mark> C	riteria			
Code	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS	
		*	* * *							
041802	Bayou Chaperon	ABCG	N/A	N/A	4.0	6.5-	1	35	N/A	
	(Scenic <mark>) (</mark> Estuarine)					9.0	[25]			
		*	* * *							
041901	Mississippi River	ABCE	N/A	N/A	5.0	6.5-	4	35	N/A	
	Gulf Outlet					9.0	[25]			
	(MRGO)—From									
	ICWW to MRGO									
	closure									
	structure Breton									
	Sound at MRGO									
	mile 23.80									
***										

Mermentau River Basin (05)

\* \* \*

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated			Nume	ric <mark>al</mark> C	riteria		
Code	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
050402	Lake Arthur and	ABC	90	30	5.0	6.0-	1	32	260
	Lower Mermentau					8.5			
	River to								
	ICWWGrand Lake								
		*	: * *	I		I			
050601	Lacassine Bayou—	ABCF	90	10	[16]	6.0-	1	32	400
	From headwaters to					8.5			
	ICWWGrand Lake								
		*	: * *			I			
050802	Big Constance	ABC	N/A	N/A	4.0	6.5-	1	35	N/A
	Lake <mark>; includes</mark>					9.0	[25]		
	associated water								
	bodies (Estuarine)								
	1	*	* * *						

Vermilion-Teche River Basin (06)

\* \* \*

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated			Nume	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
060201	Bayou Cocodrie— From US Highway- 167 to Bayou Boeuf-Cocodrie Diversion Canal (Scenic)	ABCG	45	35	[19]	6.0- 8.5	1	32	100
		*	: * *						
060210	Bayou Carron—  From headwaters to  Little Bayou Teche	АВС	40	30	5.0	6.0- 8.5	1	32	220
		*	* * *		•		•		

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	Numeric <mark>al</mark> Criteria						
Code	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
060212	Chatlin Lake Canal	ABC	45	35	5.0	6.0-	1	32	100
	and Bayou					8.5			
	DuLac—From								
	Alexandria to								
	Bayou des Glaises								
	Diversion Canal;								
	includes a portion								
	of Bayou <mark>Đd</mark> e <mark>s</mark>								
	Glaises								
	1	*	* * *						
060701	Tete Bayou—From	ABC	80	50	5.0	6.0-	1	32	350
	headwaters to Lake					8.5			
	Fausse Point								
060702	Lake Fausse Point	ABC <u>D</u>	80	50	5.0	6.0-	1	32	350
	and Dauterive Lake					8.5			

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	Numeric <mark>al</mark> Criteria								
	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS		
060703	Bayou Du	ABC	80	50	5.0	6.0-	1	32	350		
	Portage—From					8.5					
	headwaters to										
	Dauterive Lake										
060801	Vermilion River—	ABCF	230	70	5.0	6.0-	1	32	440		
	From headwaters to					8.5					
	L <mark>A</mark> a. Highway-										
	3073 bridge										

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code									
	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
<del>060801</del>	Cote Gelee	<del>B-C</del>	<del>[23]</del>	<del>[23]</del>	<del>[23]</del>	<del>[23]</del>	2	<del>[23]</del>	<del>[23]</del>
<del>001</del>	Wetland Forested								
	wetland located in								
	Lafayette Parish, 2								
	miles east of								
	Broussard, 2 miles								
	northeast of US-90,								
	and west of Bayou								
	<del>Tortue</del>								
060802	Vermilion River—	ABCF	230	70	[6]	6.0-	1	32	440
	From L <mark>Aa.</mark>					8.5			
	Highway3073								
	bridge to ICWW								
		*	* *						

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated			Numei	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
060805	Breaux Bridge	ВС	[5]	[5]	[5]	[5]	2	[5]	[5]
	Swamp—Forested								
	wetland in St.								
	Martin Parish, 1/2								
	mile southwest of								
	Breaux Bridge,								
	southeast of LAa.								
	Highway-94, west								
	of Bayou Teche,								
	east of Vermilion								
	River, and north of								
	Evangeline and								
	Ruth Canals; also								
	called Cyprière								
	Perdue Swamp								

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated			Numei	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
060806	Cypress Island	ВС	[23]	[23]	[23]	[23]	2	[23]	[23]
	Coulee Wetland—								
	Forested wetland								
	located in St.								
	Martin Parish, 2								
	miles west of St.								
	Martinville, 1/2								
	mile north of LA-a.								
	Highway 96, west								
	of Bayou Teche,								
	and east of								
	Vermilion River								

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated			Nume	ric <mark>al</mark> C	riteria		
Code	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
060807	Cote Gelee	B C	[23]	[23]	[23]	[23]	2	[23]	[23]
	Wetland—Forested								
	wetland located in								
	Lafayette Parish, 2								
	miles east of								
	Broussard, 2 miles								
	northeast of US								
	Highway 90, and								
	west of Bayou								
	<b>Tortue</b>								
	1	I	* *	l .		l	l		

81

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated	Numeric <mark>al</mark> Criteria							
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS	
060902	Bayou Carlin—	ABC	N/A	N/A	4.0	6.5-	1	35	N/A	
	From Lake					9.0	[25]			
	Peigneur to Bayou									
	Tigre Petite Anse;									
	also called									
	Delcambre Canal									
	(Estuarine)									

\* \* \*

### Mississippi River Basin (07)

\* \* \*

070504	Monte Sano	BL	[7]	[7]	3.0	6.0-	1	35	[7]
	Bayou—From US					9.0		[8]	
	Highway-61 to								
	Mississippi River								
	[7], [8]								
		*	**	ı		ı		1	

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	Numeric <mark>al</mark> Criteria									
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS			
		Ouachita R	iver Bas	sin (08)								
		*	* * *									
080401	Bayou	ABCG	55	35	5.0	6.0-	1	32	420			
	Bartholomew—					8.5						
	From Arkansas											
	state line to											
	Ouachita River											
	also known as											
	Bayou Desiard and											
	Lake Bartholomew											
	(Scenic to Dead											
	Bayou)											
	1	*	* * *									

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated			Numer	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
080801	South Cheniere	ABC	25	25	5.0	6.0-	1	32	100
	Creek—From					8.5			
	headwaters to								
	Cheniere Brake								
	Lake								
		*	* *				I		
080904	Bayou Lafourche—	ABC	500	200	5.0	6.0-	1	32	1,500
	From					8.5			
	<u>headwaters</u> near								
	<del>Oakridge</del> to Boeuf								
	River near								
	Columbia								
	•	*	* *				1		

84

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated			Nume	ric <mark>al</mark> C	riteria		
	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
081201	Tensas River—	ABC	45	30	5.0	6.0-	1	32	500
	From headwaters to					8.5			
	confluence with								
	<u>Ouachita</u>								
	River Jonesville;								
	includes Tensas								
	Bayou								
		*	* *	l		•			
081301	Little River—From	ABC	95	10	5.0	6.0-	1	32	265
	dam at Archie Dam					8.5			
	to Ouachita River								
	1	*	**				ı		

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated			Nume	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
081601	Little River—From	ABCG	250	500	5.0	6.0-	1	33	1,000
	Castor Creek-					8.5			
	Dugdemona River								
	confluence to Bear								
	Creek (Scenic)								
<del>081601</del>	<del>Georgetown</del>	ABCGD	<del>250</del>	<del>500</del>	<del>5.0</del>	<del>6.0</del>	1	<mark>33</mark>	<del>1,000</del>
<del>556716</del>	Reservoir					<mark>8.5</mark>			
081602	Little River—From	ABCG	50	75	5.0	6.0-	1	33	260
	Bear Creek to					8.5			
	Catahoula Lake								
	(Scenic)								
	1	*	* *				I		
081605	Little River—From	ABC	50	75	5.0	6.0-	1	33	260
	Catahoula Lake to					8.5			
	<mark>₽d</mark> am at Archie								
		*	* * *	1		1	<u> </u>	<u> </u>	

Commented [JP36]: No change to 081602.

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated			Numer	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
081612	Georgetown	ABCDG	<u>250</u>	<u>500</u>	<u>5.0</u>	6.0-	1	<u>33</u>	1,000
	Reservoir					<u>8.5</u>			
		Pearl Rive	er Basin	(09)					
		*	* *						
090102	East Pearl River—	ABC	20	15	5.0	6.0-	1	32	180
	From Holmes					8.5			
	Bayou to Interstate								
	<b>-</b> 10								
090103	East Pearl River—	ABC	N/A	N/A	4.0	6.0-	1	35	N/A
	From Interstate10					8.5	[25]		
	to Lake Borgne								
	(Estuarine)								
	•	*	**						

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated			Nume	ric <mark>al</mark> C	riteria		
Code	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
090202	West Pearl	ABCG	90	20	5.0	6.0-	1	32	235
	River—From Holmes Bayou to					8.5			
	The Rigolets;								
	includes east and								
	west mouths								
	(Scenic)								
090202	Morgan River	ABCG	<del>90</del>	<del>20</del>	<del>5.0</del>	<del>6.0-</del>	1	<mark>32</mark>	<del>235</del>
<del>5126</del>	From Porters River					<del>8.5</del>			
	to West Pearl River								
	(Scenic)								
090203	Lower Bogue	ABC	15	10	5.0	6.0-	1	32	105
	Chitto—From Pearl					8.5			
	River Navigation								
	Canal to Wilsons								
	Slough								

Commented [JP37]: No change to 090202.

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated			Numer	ric <mark>al</mark> C	riteria		
3040	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
090204	Pearl River	ABC	15	10	5.0	6.0-	1	32	105
	Navigation Canal—					8.5			
	From below Lock								
	No. 3 to West Pearl								
	River								
090205	Wilson Slough and	ABCG	15	10	5.0	6.0-	1	32	105
	Bradley Slough—					8.5			
	From Pearl								
	River Bogue Chitto								
	to West Pearl River								
	(Scenic)								
<del>090206</del>	Bradley Slough	ABCG	<del>15</del>	<del>10</del>	<del>5.0</del>	<del>6.0-</del>	1	<del>32</del>	<del>105</del>
	From Bogue Chitto					<del>8.5</del>			
	to West Pearl River								
	(Scenic)								

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated			Nume	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
090207	Middle Pearl River	ABC	90	20	5.0	6.0-	1	32	235
	and West Middle					8.5			
	Pearl River—From								
	West Pearl River to								
	Little Lake								
090207	Morgan Bayou	AB-C	<del>90</del>	<del>20</del>	<del>5.0</del>	<del>6.0-</del>	1	<del>32</del>	<del>235</del>
<del>5112</del>	From headwaters					<del>8.5</del>			
	near I-10 to Middle								
	River								
090208	Little Lake	ABC	N/A	N/A	4.0	6.0-	1	32	N/A
	(Estuarine)					8.5	[25]		
090209	Morgan River—	ABCG	<u>90</u>	<u>20</u>	<u>5.0</u>	<u>6.0-</u>	1	<u>32</u>	<u>235</u>
	From Porters River					<u>8.5</u>			
	to West Pearl River								
	(Scenic)								
	ı	*	* * *	1		ı	l		

Commented [JP38]: No change to 090207.

Commented [JP39]: No change to 090208.

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated			Nume	ric <mark>al</mark> C	riteria		
0040	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
090503	Little Silver	ABC	15	10	5.0	6.0-	1	35	105
	Creek—From					8.5			
	headwaters to Big								
	Silver CreekBogue								
	Chitto River								
	1	*	* *	1		1	l .		

\* \* \*

		Red Rive	r Basin	(10)					
100101	Red River—From	ABCDF	185	110	5.0	6.0-	1	34	780
	Arkansas state line					8.5			
	to US <u>Highway</u> -165								
	in Alexandria								
100201	Red River—From	АВС	185	110	5.0	6.0-	1	34	780
	US <u>Highway</u> -165 to					8.5			
	Old River Control								
	Structure Outflow								
	Channel								

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Stream Designated		d Numeric <mark>al</mark> Criteria							
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS		
	_	*	* *								
100301	Black Bayou—	ABCF	250	25	5.0	6.0-	1	33	500		
	From Texas state					8.5					
	line to L <mark>Aa.</mark>										
	Highway -1 at										
	Black Bayou Lake										
100302	Black Bayou	ABC	250	25	5.0	6.0-	1	33	500		
	Lake—From L <mark>Aa.</mark>					8.5					
	Highway -1 to										
	spillway										
		*	* *			ı					
100601	Bayou Pierre—	ABCF	150	75	5.0	6.0-	1	32	500		
	From headwaters to					8.5					
	Rolling Lake Bayou										
	<del>Pierre</del>										
	_1	*	* *	I		1	<u>l</u>				

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated			Nume	ric <mark>al</mark> C	riteria		
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
100606	Bayou Pierre—	ABC <mark>D</mark> F	150	75	5.0	6.0-	1	32	500
	From					8.5			
	Rolling Sawing								
	Lake <u>Bayou</u> to Red								
	River								
		*	**			l			
100704	Kepler Creek—	ABCF	25	25	5.0	6.0-	1	32	79
	From headwaters to					8.5			
	Kepler <u>Creek</u> Lake								
100705	Kepler <u>Creek</u> Lake	ABCF	25	25	5.0	6.0-	1	32	79
						8.5			
100706	Kepler Creek—	ABCF	25	25	5.0	6.0-	1	32	79
	From Kepler Creek					8.5			
	Lake to Black Lake								
	Bayou								
	1	*	* * *	1		1	I		

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

 $D\text{-}Drinking\ Water\ Supply;\ E\text{-}Oyster\ Propagation;\ F\text{-}Agriculture;\ G\text{-}Outstanding\ Natural\ Resource}$ 

#### Waters

Codo	Stream	Designated			Nume	ric <mark>al</mark> C	riteria		
Code	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS
100902	Nantaches Lake	ABCF	25	25	5.0	6.0-	1	32	100
						8.5			
<del>100903</del>	Bayou Nantaches	<del>ABCF</del>	<del>25</del>	<del>25</del>	<del>5.0</del>	<del>6.0</del>	<del>1</del>	<del>32</del>	<del>100</del>
	From Nantaches					<del>8.5</del>			
	Lake to Red River								
101001	Sibley Lake	ABCDF	25	25	5.0	6.0-	1	32	100
						8.5			
		*	· * *				<u> </u>		
101507	Old Saline Bayou—	ABC	<u>45</u>	<u>10</u>	<u>5.0</u>	<u>6.0-</u>	<u>1</u>	<u>32</u>	<u>165</u>
	From headwaters to					8.5			
	control structure at								
	Saline Bayou								
		*	· * *	1	l .	1			

Commented [JP40]: No change to 100902.

Commented [JP41]: No change to 101001.

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	Numeric <mark>al</mark> Criteria									
	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS			
101605	Bayou Cocodrie—	ABC	250	75	5.0	6.0-	1	32	500			
	From Lake					8.5						
	Concordia to LAa											
	Highway 15											
	***											
101607	Bayou Cocodrie—	B L	250	75	[13]	6.0-	2	32	500			
	From L <mark>Aa.</mark> -					8.5						
	Highway 15 to											
	Little Cross Bayou											
Sabine River Basin (11)												
		*	* * *									
110401	Bayou Toro—From	ABC	25	25	5.0	6.0-	1	32	150			
	headwaters to L <mark>Aa.</mark>					8.5						
	Highway-473											

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource
Waters

Code	Stream	Designated	Numeric <mark>al</mark> Criteria							
	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS	
110402	Bayou Toro—From  LAa. Highway-473	АВС	25	25	5.0	6.0- 8.5	1	32	150	
	to Sabine River									

\* \* \*

#### Terrebonne Basin (12)

\* \* \*

Bayou Choctaw—	ABC	250	75	2.3	6.0-	1	32	500
From Bayou				Mar	8.5			
Poydras to				Nov.;				
<u>ICWW</u> Bayou				5.0				
Grosse Tete				Dec				
				Feb.				
	From Bayou  Poydras to  ICWWBayou	From Bayou Poydras to ICWWBayou	From Bayou Poydras to ICWWBayou	From Bayou Poydras to ICWWBayou	From Bayou Mar Poydras to Nov.;  ICWWBayou 5.0 Grosse Tete Dec	From Bayou Mar 8.5 Poydras to Nov.;  ICWWBayou 5.0 Grosse Tete Dec	From Bayou Mar 8.5 Poydras to Nov.;  ICWWBayou 5.0 Grosse Tete Dec	From Bayou  Poydras to  Nov.;  ICWWBayou  Grosse Tete  Mar 8.5  Nov.;  5.0  Dec

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	Numeric <mark>al</mark> Criteria							
Code	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS	
120104	Bayou Grosse	ABC	25	25	2.3	6.0-	1	32	200	
	Tete—From				Mar	8.5				
	headwaters to				Nov.;					
	ICWW- <del>near Wilbert</del>				5.0					
	<del>Canal</del>				Dec					
					Feb.					
	<u> </u>	*	* * *							
120503	Bayou Petit	ABCE	500	150	3.8	6.0-	4	32	1,000	
	Caillou—From				April-	9.0				
	Bayou Terrebonne				Aug.;					
	to L <mark>A</mark> a. Highway-				5.0					
	24 bridge				Sept					
					Mar.					

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	Numeric <mark>al</mark> Criteria								
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS		
120504	Bayou Petit	АВСЕ	N/A	N/A	3.8	6.0-	4	32	N/A		
	Caillou—From				April-	9.0	[25]				
	L <mark>A</mark> a. Highway-24				Aug.;						
	bridge to				5.0						
	Boudreaux Canal				Sept						
	(Estuarine)				Mar.						
	1	*	* * *								
120507	Bayou Chauvin—	ABC	N/A	N/A	3.8	6.5-	1	32	N/A		
	From				June-	9.0	[25]				
	ICWW <mark>Ashland</mark>				Aug.;						
	Canal to Lake				4.0						
	Boudreaux				Sept						
	(Estuarine)				May						
		*	* * *	<u>I</u>							

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

Code	Stream	Designated	Numeric <mark>al</mark> Criteria								
Couc	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS		
120604	Bayou Blue—From	ABC	445	105	3.8	6.5-	1	32	1,000		
	Company				April-	9.0					
	Canal <mark>ICWW</mark> to				Aug.;						
	Grand Bayou Canal				5.0						
					Sept						
					Mar.						
		*	: * *		I						
120705	Houma Navigation	ABCE	N/A	N/A	3.8	6.5-	4	35	N/A		
	Canal—From 1/2				June-	9.0	[25]				
	mile south of Bayou				Aug.;						
	Grand Caillou to				4.0						
	Terrebonne Bay				Sept						
	(Estuarine)				May						
	1	*	* * *	1	I						

A-Primary Contact Recreation; B-Secondary Contact Recreation; C-Fish And Wildlife Propagation; L-Limited Aquatic Life and Wildlife Use;

D-Drinking Water Supply; E-Oyster Propagation; F-Agriculture; G-Outstanding Natural Resource

Waters

Code	Stream	Designated	Numeric <mark>al</mark> Criteria								
	Description	Uses	CL	SO <sub>4</sub>	DO	pН	BAC	°C	TDS		
120709	Bayou Petite	ABCE	N/A	N/A	3.8	6.0-	4	32	N/A		
	Caillou—From				June-	9.0	[25]				
	Houma Navigation				Aug.;						
	Canal to Terrebonne				4.0						
	Bay				Sept						
					May						
***											

#### ENDNOTES:

[1]. — [4]. ...

[5] Designated Naturally Dystrophic Waters Segment—Not Available (N/A); t. The following criteria are applicable:

[5].(a). — [25]. ...

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1). HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 15:738 (September 1989), amended LR 17:264 (March 1991), LR 20:431 (April 1994), LR 20:883 (August 1994), LR 21:683 (July 1995), LR 22:1130 (November 1996), LR 24:1926 (October 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 25:2405 (December 1999), LR 27:289 (March 2001), LR

28:462 (March 2002), LR 28:1762 (August 2002), LR 29:1814, 1817 (September 2003), LR 30:1474 (July 2004), amended by the Office of Environmental Assessment, LR 30:2468 (November 2004), LR 31:918, 921 (April 2005), amended by the Office of the Secretary, Legal Affairs Division, LR 32:815, 816, 817 (May 2006), LR 33:832 (May 2007), LR 34:1901 (September 2008), LR 35:446 (March 2009), repromulgated LR 35:655 (April 2009), amended LR 36:2276 (October 2010) amended by the Office of the Secretary, Legal Division, LR 41:2603 (December 2015), LR 42:737 (May 2016), amended by the Office of the Secretary, Legal Affairs and Criminal Investigations Division, LR 45:1178 (September 2019), LR 46: